

# Recovery Plan Action Status

Plan Name: Recovery Plan Banara vanderbiltii

Plan Status: Final

Plan Date: 15-Mar-91

Lead Agency: USFWS

Lead Office: Caribbean Ecological Services Field Office

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Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Palo de ramon (Banara vanderbiltii)	1	1	Obtain protective status for Rio Lajas and Tetas de Cayey populations	Unknown			Caribbean islands National Wildlife Refuge, FWS , Puerto Rico Department of Natural Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Acquisition: Easement, Acquisition: Management Agreement	Internal Administrative, Volunteer	Could also be accomplished by conservation easements
Palo de ramon (Banara vanderbiltii)	2	10	Assess seed production and dispersal	Not Started			Universities, Puerto Rico Department of Natural Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Research: Propagation	Contract, Graduate Student, Internal Field Assistance, Species Expert, Volunteer	Task duration 2-4 yrs
Palo de ramon (Banara vanderbiltii)	2	11	Evaluate seed viability and germination	Unknown			Universities, Puerto Rico Department of Natural Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Research: Habitat Requirements, Research: Propagation	Contract, Graduate Student, Internal Field Assistance, Species Expert, Volunteer	Task duration 2-4 yrs
Palo de ramon (Banara vanderbiltii)	2	12	Evaluate seedling establishment and germination	Ongoing Current	FY 2007	FY 2011	Universities, Puerto Rico Department of Natural Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Research: Propagation, Research: Reintroduction	Internal Field Assistance, Species Expert, Volunteer	DNER is conducting this task
Palo de ramon (Banara vanderbiltii)	2	13	Evaluate role of vegetative regeneration	Not Started			Universities, U.S. Fish and Wildlife Service, Office of Endangered Species	Management: Population Monitoring, Research: Management Techniques	Internal Field Assistance, Species Expert, Volunteer	Task duration 2-4 yrs

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Palo de ramon (Banara vanderbiltii)	2	14	Evaluate relative propagation feasibility	Partially Complete	FY 2007	FY 2011	Botanical Gardens, Universities, U.S. Fish and Wildlife Service, Office of Endangered Species	Management: Population Monitoring, Research: Reintroduction	Graduate Student, Internal Field Assistance, Species Expert, Volunteer	Task duration 2-4 yrs
Palo de ramon (Banara vanderbiltii)	2	15	Determine feasibility of ex situ production	Ongoing Not Current	FY 2007	FY 2011	Botanical Gardens, Puerto Rico Department of Natural Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Research: Reintroduction	Labor type not yet selected	Task duration 2-4 yrs. DNER is conducting this task
Palo de ramon (Banara vanderbiltii)	2	16	Assess habitat suitability	Not Started			Universities, Puerto Rico Department of Natural Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Research: Habitat Requirements	Contract, Graduate Student, Internal Field Assistance, Species Expert, Volunteer	
Palo de ramon (Banara vanderbiltii)	2	17	Assure site protection	Not Started			Puerto Rico Department of Natural Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Management: Planning, Other: Regulations	Internal Administrative, Volunteer	
Palo de ramon (Banara vanderbiltii)	2	18	Determine minimum viable population to ensure self-perpetuation	Not Started			Universities, U.S. Fish and Wildlife Service, Office of Endangered Species	Research: Reintroduction	Contract, Graduate Student, Internal Technical Assistance, Species Expert, Volunteer	
Palo de ramon (Banara vanderbiltii)	2	19	Determine what additional actions are needed to achieve recovery goals	Not Started			U.S. Fish and Wildlife Service, Law Enforcement Division, Universities, U.S. Fish and Wildlife Service, Office of Endangered Species	Research	Contract, Graduate Student, Internal Administrative, Internal Technical Assistance, Species Expert, Volunteer	
Palo de ramon (Banara vanderbiltii)	1	2	Eliminate military maneuvers on the Cayey site	Complete	Prior to FY 1995	FY 2000 - FY 2004	Puerto Rico Department of Natural Resources, USFWS Regional Office 4 - Atlanta, U.S. Fish and Wildlife Service, Office of Endangered Species	Management: Other	Internal Field Assistance	At no cost

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Palo de ramon (Banara vanderbiltii)	1	3	Monitor known populations	Ongoing Not Current			Universities, Puerto Rico Department of Natural Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Management: Population Monitoring	Contract, Graduate Student, Internal Field Assistance, Species Expert, Volunteer	
Palo de ramon (Banara vanderbiltii)	1	4	Enforce existing regulations	Ongoing Current	Prior to FY 1995	FY 2011	U.S. Fish and Wildlife Service, Law Enforcement Division, Puerto Rico Department of Natural Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Other: Law Enforcement	Internal Administrative	DNER Performs these actions
Palo de ramon (Banara vanderbiltii)	2	5	Educate public on plant conservation and regulations	Ongoing Current	Prior to FY 1995	FY 2011	Universities, Puerto Rico Department of Natural Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Other: Information and Education	Internal Field Assistance, Species Expert, Volunteer	Species is included in public education programs
Palo de ramon (Banara vanderbiltii)	2	6	Identify and inventory sites	Not Started			Universities, Puerto Rico Department of Natural Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Research: Reintroduction	Graduate Student, Internal Field Assistance, Species Expert, Volunteer	Task duration 2-4 yrs
Palo de ramon (Banara vanderbiltii)	2	7	Characterize sites to determine suitability for future recovery actions	Not Started			Puerto Rico Department of Natural Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Research: Habitat Status	Graduate Student, Internal Field Assistance, Species Expert	Includes 211 and 212. Task duration 2-4 yrs
Palo de ramon (Banara vanderbiltii)	2	8	Define habitat requirements	Not Started			Universities, Puerto Rico Department of Natural Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Research: Habitat Requirements	Graduate Student, Internal Field Assistance, Species Expert	Should be combined with Tasks 2.2 and 2.3. Task duration 2-4 yrs

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Palo de ramon (Banara vanderbiltii)	2	9	Assess periodicity of flowering and pollination	Unknown			Universities, Puerto Rico Department of Natural Resources, U.S. Fish and Wildlife Service, Office of Endangered Species	Research: Population Assessment, Research: Propagation, Research: Reintroduction	Graduate Student, Internal Field Assistance, Species Expert	Task duration 2-4 yrs